

**IN THE SPECIFICATION:**

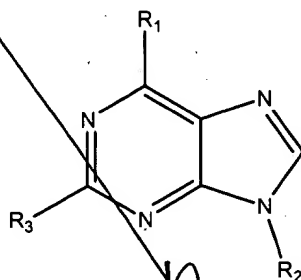
Cancel the paragraph on page 1, lines 9-10 and replace with the following new paragraph:

Sub  
C! B<sup>x</sup>  
This application is a continuation of U.S. patent application Serial No. 09/241,224, filed on February 1, 1999, which is a section 371 application of PCT/US97/13386 filed on August 1, 1997, which is a CIP of U.S. patent application Serial No. 08/692012, filed on August 2, 1996, now U.S. Patent No. 5,866,702.

**IN THE CLAIMS**

Cancel claim 89 from the application without prejudice.

50. (Once amended) A 2,6,9-trisubstituted purine composition of matter and salts thereof having the following formula:



wherein R<sub>1</sub> is halogen or R'<sub>1</sub>-X wherein X = NH, O, S, S(O<sub>2</sub>);

R'<sub>1</sub> is alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, CF<sub>3</sub>, heteroaryl, heterocyclyl, SR<sup>20</sup>, S(O)R<sup>21</sup>, SO<sub>2</sub>R<sup>21</sup>, SO<sub>2</sub>NR<sup>20</sup>R<sup>23</sup>, SO<sub>2</sub>NR<sup>20</sup>COR<sup>21</sup>, SO<sub>2</sub>NR<sup>20</sup>CONR<sup>20</sup>R<sup>23</sup>, SO<sub>2</sub>NR<sup>20</sup>CO<sub>2</sub>R<sup>21</sup>, NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>COR<sup>21</sup>, NR<sup>20</sup>CO<sub>2</sub>R<sup>21</sup>,

$\text{NR}^{20}\text{CONR}^{20}\text{R}^{23}$ ,  $\text{N}(\text{R}^{20})\text{C}(\text{NR}^{20})\text{NHR}^{23}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{OCONR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ ,  $\text{CONR}^{20}\text{R}^{23}$ ,  $\text{CONR}^{20}\text{SO}_2\text{R}^{21}$  and  $\text{COR}^{20}$ ;

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 $\text{R}_2$  is a hydrogen or hydrocarbon selected from the group alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $\text{SR}^{20}$ ,  $\text{S}(\text{O})\text{R}^{21}$ ,  $\text{SO}_2\text{R}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{R}^{23}$ ,  $\text{SO}_2\text{NR}^{20}\text{COR}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{CONR}^{20}\text{R}^{23}$ ,  $\text{SO}_2\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{COR}^{21}$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{CONR}^{20}\text{R}^{23}$ ,  $\text{N}(\text{R}^{20})\text{C}(\text{NR}^{20})\text{NHR}^{23}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{OCONR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ ,  $\text{CONR}^{20}\text{R}^{23}$ ,  $\text{CONR}^{20}\text{SO}_2\text{R}^{21}$  and  $\text{COR}^{20}$ ;

$\text{R}_3$  is  $-\text{NR}_4\text{R}_5$ , wherein  $\text{R}_4$  and  $\text{R}_5$  are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $\text{R}^{22}$ ,  $\text{SR}^{20}$ ,  $\text{S}(\text{O})\text{R}^{21}$ ,  $\text{SO}_2\text{R}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{R}^{23}$ ,  $\text{SO}_2\text{NR}^{20}\text{COR}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{CONR}^{20}\text{R}^{23}$ ,  $\text{SO}_2\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{COR}^{21}$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{CONR}^{20}\text{R}^{23}$ ,  $\text{N}(\text{R}^{20})\text{C}(\text{NR}^{20})\text{NHR}^{23}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{OCONR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OCONR}^{20}\text{R}^{23}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ ,  $\text{CONR}^{20}\text{R}^{23}$ ,  $\text{CONR}^{20}\text{SO}_2\text{R}^{21}$  and  $\text{COR}^{20}$ , with the proviso that either  $\text{R}_4$  or  $\text{R}_5$  must be substituted with  $\text{NR}^{20}\text{R}^{23}$ , and when  $\text{R}_3$  is not 2-hydroxyethylamino and  $\text{R}_2$  is isopropyl, then  $\text{R}_1'-\text{X}$  is not benzylamino, m-hydroxybenzylamino, or 3-methylbutylamino, and wherein when  $\text{R}_3$  is

selected from 2-dimethylaminoethylamino, and when  $R_2$  is methyl, then  $R_1'-X$  is not benzylamino, and wherein when  $R_1'$  is 4-methoxybenzylamino and  $R_2$  is isopropyl, then  $R_3$  is not 2-aminoethylamino or 2-aminomethylethanolamino;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-15}$  alkyl,  $C_{2-15}$  alkenyl,  $C_{2-15}$  alkynyl, heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, alkynyl, heterocyclyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN,  $O-C_{1-6}$  alkyl,  $CF_3$ , aryl, and heteroaryl;

$R^{21}$  is a member selected from the group consisting of  $C_{1-15}$  alkyl,  $C_{2-15}$  alkenyl,  $C_{2-15}$  alkynyl, heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, alkynyl, aryl, heterocyclyl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from the group of halo, heterocyclyl, aryl, heteroaryl,  $CF_3$ , CN,  $OR^{20}$ ,  $SR^{20}$ ,  $N(R^{20})_2$ ,  $S(O)R^{22}$ ,  $SO_2R^{22}$ ,  $SO_2N(R^{20})_2$ ,  $SO_2NR^{20}COR^{22}$ ,  $SO_2NR^{20}CO_2R^{22}$ ,  $SO_2NR^{20}CON(R^{20})_2$ ,  $N(R^{20})_2NR^{20}COR^{22}$ ,  $NR^{20}CO_2R^{22}$ ,  $NR^{20}CON(R^{20})_2$ ,  $NR^{20}C(NR^{20})NHR^{23}$ ,  $COR^{20}$ ,  $CO_2R^{20}$ ,  $CON(R^{20})_2$ ,  $CONR^{20}SO_2R^{22}$ ,  $NR^{20}SO_2R^{22}$ ,  $SO_2NR^{20}CO_2R^{22}$ ,  $OR^{20}$ ,  $OCOR^{20}SO_2R^{22}$ ,  $OC(O)R^{20}$ ,  $C(O)OCH_2OC(O)R^{20}$ , and  $OCON(R^{20})_2$ , and each optional heteroaryl, aryl, and heterocyclyl substituent is optionally substituted with halo, alkyl,  $CF_3$ , amino, mono- or di-alkylamino, alkyl or aryl or heteroaryl amide,  $NCOR^{22}$ ,  $NR^{20}SO_2R^{22}$ ,  $COR^{20}$ ,  $CO_2R^{20}$ ,  $CON(R^{20})_2$ ,  $NR^{20}CON(R^{20})_2$ ,  $OC(O)R^{20}$ ,  $OC(O)N(R^{20})_2$ ,  $SR^{20}$ ,  $S(O)R^{22}$ ,  $SO_2R^{22}$ ,  $SO_2N(R^{20})_2$ , CN, or  $OR^{20}$ ;

$R^{22}$  is a member selected from the group consisting of  $C_{1-15}$  alkyl,  $C_{2-15}$  alkenyl,  $C_{2-15}$  alkynyl, heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, alkynyl,

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heterocyclyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN, O-C<sub>1-6</sub> alkyl, CF<sub>3</sub>, aryl, and heteroaryl; and

R<sup>23</sup> is R<sup>21</sup> or H.

51. (Once amended) A 2,6,9-trisubstituted purine composition of claim 50 wherein:

R<sub>1</sub> is a alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, CF<sub>3</sub>, aryl, heteroaryl, heterocyclyl, R<sup>22</sup>, SR<sup>20</sup>, S(O)R<sup>21</sup>, SO<sub>2</sub>R<sup>21</sup>, SO<sub>2</sub>NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>COR<sup>21</sup>, NR<sup>20</sup>CO<sub>2</sub>R<sup>21</sup>, NR<sup>20</sup>CONR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>SO<sub>2</sub>R<sup>21</sup>, OR<sup>20</sup>, CN, CO<sub>2</sub>R<sup>20</sup>, CONR<sup>20</sup>R<sup>23</sup>, and COR<sup>20</sup>;

R<sub>2</sub> is a hydrogen or hydrocarbon selected from the group substituted alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl, R<sup>22</sup>, SR<sup>20</sup>, S(O)R<sup>21</sup>, SO<sub>2</sub>R<sup>21</sup>, SO<sub>2</sub>NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>COR<sup>21</sup>, NR<sup>20</sup>CO<sub>2</sub>R<sup>21</sup>, NR<sup>20</sup>CONR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>SO<sub>2</sub>R<sup>21</sup>, OR<sup>20</sup>, CN, CO<sub>2</sub>R<sup>20</sup>, CONR<sup>20</sup>R<sup>23</sup>, and COR<sup>20</sup>;

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl,

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alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,  $SO_2R^{21}$ ,  $SO_2NR^{20}R^{23}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}CONR^{20}R^{23}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ ,  $CN$ ,  $CO_2R^{20}$ ,  $CONR^{20}R^{23}$ , and  $COR^{20}$ ;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-8}$ alkyl,  $C_{2-8}$  alkenyl,  $C_{2-15}$  heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, heterocyclyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide,  $CN$ ,  $O-C_{1-6}$  alkyl,  $CF_3$ , aryl, and heteroaryl;

$R^{21}$  is a member selected from the group consisting of  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl, heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, aryl, heterocyclyl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from the group of halo, heterocyclyl, aryl, heteroaryl,  $CF_3$ ,  $CN$ ,  $OR^{20}$ ,  $SR^{20}$ ,  $N(R^{20})_2$ ,  $S(O)R^{22}$ ,  $SO_2R^{22}$ ,  $SO_2N(R^{20})_2$ ,  $SO_2NR^{20}COR^{22}$ ,  $SO_2NR^{20}CO_2R^{22}$ ,  $SO_2NR^{20}CON(R^{20})_2$ ,  $N(R^{20})_2 NR^{20}COR^{22}$ ,  $NR^{20}CO_2R^{22}$ ,  $NR^{20}CON(R^{20})_2$ ,  $NR^{20}C(NR^{20})NHR^{23}$ ,  $COR^{20}$ ,  $CO_2R^{20}$ ,  $CON(R^{20})_2$ ,  $CONR^{20}SO_2R^{22}$ ,  $NR^{20}SO_2R^{22}$ ,  $SO_2NR^{20}CO_2R^{22}$ ,  $OR^{20}$ ,  $OCONR^{20}SO_2R^{22}$ ,  $OC(O)R^{20}$ ,  $C(O)OCH_2OC(O)R^{20}$ , and  $OCON(R^{20})_2$ , and each optional heteroaryl, aryl, and heterocyclyl substituent is optionally substituted with halo, alkyl,  $CF_3$ , amino, mono- or di-alkylamino, alkyl or aryl or heteroaryl amide,  $NCOR^{22}$ ,  $NR^{20}SO_2R^{22}$ ,  $COR^{20}$ ,  $CO_2R^{20}$ ,  $CON(R^{20})_2$ ,  $NR^{20}CON(R^{20})_2$ ,  $OC(O)R^{20}$ ,  $OC(O)N(R^{20})_2$ ,  $SR^{20}$ ,  $S(O)R^{22}$ ,  $SO_2R^{22}$ ,  $SO_2N(R^{20})_2$ ,  $CN$ , or  $OR^{20}$ ; and

~~B<sup>3</sup>~~  $R^{22}$  is a member selected from the group consisting of  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl, heterocyclyl, aryl, and heteroaryl, which alkyl, alkenyl, heterocyclyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN,  $O-C_{1-6}$  alkyl,  $CF_3$ , aryl, and heteroaryl.

~~B<sup>4</sup>~~ 52. (Once amended) A 2,6,9-trisubstituted purine composition of claim 50 wherein:

$R'_1$  is alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo,  $CF_3$ , aryl, heteroaryl, heterocyclyl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,  $SO_2R^{21}$ ,  $SO_2NR^{20}R^{23}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ ,  $CONR^{20}R^{23}$ , and  $COR^{20}$ ;

$R_2$  is a hydrogen or hydrocarbon selected from the group consisting of alkyl, heterocyclyl, and aryl, each having one to 10 carbon atoms, which alkyl, heterocyclyl, aryl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,  $SO_2R^{21}$ ,  $SO_2NR^{20}R^{23}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ ,  $CONR^{20}R^{23}$ , and  $COR^{20}$ ;

$R_4$  and  $R_5$  are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 3 substituents

independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,  $SO_2R^{21}$ ,  $SO_2NR^{20}R^{23}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ ,  $CONR^{20}R^{23}$ , and  $COR^{20}$ ;

~~B<sup>4</sup>~~  
 $R^{20}$  is a member selected from the group consisting of H,  $C_{1-8}$ alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN,  $O-C_{1-6}$  alkyl,  $CF_3$ ;

$R^{21}$  is a member selected from the group consisting of  $C_{1-8}$  alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 2 substituents independently selected from the group of halo,  $CF_3$ , CN,  $OR^{20}$ ,  $SR^{20}$ ,  $N(R^{20})_2$ ,  $S(O)R^{22}$ ,  $SO_2R^{22}$ ,  $SO_2N(R^{20})_2$ ,  $NR^{20}CO_2R^{22}$ ,  $NR^{20}CON(R^{20})_2$ ,  $COR^{20}$ ,  $CO_2R^{20}$ ,  $CON(R^{20})_2$ ,  $NR^{20}SO_2R^{22}$ ,  $OR^{20}$ ; and

$R^{22}$  is a member selected from the group consisting of  $C_{1-8}$  alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN,  $O-C_{1-6}$  alkyl,  $CF_3$ , aryl, and heteroaryl.

53. (Once amended) A 2,6,9-trisubstituted purine composition of claim 50 wherein:

$R'_1$  is a alkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, heterocyclyl, heteroaryl, aralkyl, heteroarylalkyl, alkenyl, and alkynyl, are optionally with from 1 to 2 substituents independently selected from the group consisting of halo,  $CF_3$ , aryl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,

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 $\text{SO}_2\text{R}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{COR}^{21}$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ , and  $\text{CONR}^{20}\text{R}^{23}$ ;

$\text{R}_2$  is a hydrogen or hydrocarbon selected from the group alkyl, heterocyclyl, and aryl, each having one to 10 carbon atoms, which alkyl, heterocyclyl, aryl, are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $\text{R}^{22}$ ,  $\text{SR}^{20}$ ,  $\text{S(O)}\text{R}^{21}$ ,  $\text{SO}_2\text{R}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{COR}^{21}$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ ,  $\text{CONR}^{20}\text{R}^{23}$ , and  $\text{COR}^{20}$ ;

$\text{R}_4$  and  $\text{R}_5$  are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, aryl,  $\text{R}^{22}$ ,  $\text{SR}^{20}$ ,  $\text{S(O)}\text{R}^{21}$ ,  $\text{SO}_2\text{R}^{21}$ ,  $\text{SO}_2\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{R}^{23}$ ,  $\text{NR}^{20}\text{COR}^{21}$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{21}$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{21}$ ,  $\text{OR}^{20}$ ,  $\text{CN}$ ,  $\text{CO}_2\text{R}^{20}$ , and  $\text{CONR}^{20}\text{R}^{23}$ ;

$\text{R}^{20}$  is a member selected from the group consisting of H,  $\text{C}_{1-8}$ alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide,  $\text{CN}$ ,  $\text{O-C}_{1-6}$  alkyl,  $\text{CF}_3$ ;

$\text{R}^{21}$  is a member selected from the group consisting of  $\text{C}_{1-8}$  alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 2 substituents independently selected from the group of halo,  $\text{CF}_3$ ,  $\text{CN}$ ,  $\text{OR}^{20}$ ,  $\text{SR}^{20}$ ,  $\text{N(R}^{20})_2$ ,  $\text{S(O)}\text{R}^{22}$ ,  $\text{SO}_2\text{R}^{22}$ ,  $\text{SO}_2\text{N(R}^{20})_2$ ,  $\text{NR}^{20}\text{CO}_2\text{R}^{22}$ ,  $\text{NR}^{20}\text{CON(R}^{20})_2$ ,  $\text{COR}^{20}$ ,  $\text{CO}_2\text{R}^{20}$ ,  $\text{CON(R}^{20})_2$ ,  $\text{NR}^{20}\text{SO}_2\text{R}^{22}$ ,  $\text{OR}^{20}$ ; and



B<sup>4</sup>  
R<sup>22</sup> is a member selected from the group consisting of C<sub>1-8</sub> alkyl, aryl, and heteroaryl, which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl or heteroaryl amide, CN, O-C<sub>1-6</sub> alkyl, CF<sub>3</sub>, aryl, and heteroaryl.

B<sup>5</sup>  
55. (Once amended) The 2,6,9-trisubstituted purine composition of claim 52 wherein R<sub>1</sub>' is selected from the group consisting of substituted aralkyl, aralkyl, substituted heteroarylalkyl and heteroarylalkyl.

B<sup>6</sup>  
57. (Once amended) A 2,6,9-trisubstituted purine composition of claim 54 wherein:

R'<sub>1</sub> is an aryl, heteroaryl, heterocyclyl, aralkyl, heteroarylalkyl, each having one to 20 carbon atoms, which aryl, heteroaryl, heterocyclyl, aralkyl, heteroarylalkyl, are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, CF<sub>3</sub>, aryl, R<sup>22</sup>, SR<sup>20</sup>, S(O)R<sup>21</sup>, SO<sub>2</sub>R<sup>21</sup>, SO<sub>2</sub>NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>COR<sup>21</sup>, NR<sup>20</sup>CO<sub>2</sub>R<sup>21</sup>, NR<sup>20</sup>SO<sub>2</sub>R<sup>21</sup>, OR<sup>20</sup>, CN, CO<sub>2</sub>R<sup>20</sup>, and CONR<sup>20</sup>R<sup>23</sup>;

R<sub>2</sub> is a hydrogen or hydrocarbon selected from the group substituted lower alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl each having one to 10 carbon atoms wherein substitution includes optional substitution with from 1 to 2 substituents independently selected from the group consisting of halo, R<sup>22</sup>, SR<sup>20</sup>, S(O)R<sup>21</sup>, SO<sub>2</sub>R<sup>21</sup>, NR<sup>20</sup>R<sup>23</sup>, OR<sup>20</sup>, and CN;

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, alkenyl, and alkynyl, are optionally substituted with from 1 to 2

substituents independently selected from the group consisting of halo, aryl,  $R^{22}$ ,  $SR^{20}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ , and  $CONR^{20}R^{23}$ ;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-8}$ alkyl, which alkyl is optionally substituted with 1 to 2 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or CN,  $O-C_{1-6}$  alkyl,  $CF_3$ ;

$R^{21}$  is a member selected from the group consisting of  $C_{1-8}$  alkyl, which alkyl is optionally substituted with 1 to 2 substituents independently selected from the group of halo,  $CF_3$ , CN,  $OR^{20}$ ,  $SR^{20}$ ,  $N(R^{20})_2$ ; and

$R^{22}$  is a member selected from the group consisting of  $C_{1-3}$ alkyl, aryl, heteroaryl which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl, CN,  $O-C_{1-6}$  alkyl,  $CF_3$ .

58. (Once amended) The 2,6,9-trisubstituted purine composition of claim 52 wherein  $R_1'$  is selected from the group consisting of aryl, heterocyclyl, heteroaryl, and substituted heteroaryl.

59. (Once amended) The 2,6,9-trisubstituted purine composition of claim 52 wherein  $R_1'$  is selected from the group consisting of aryl, unsubstituted pyridyl, and substituted pyridyl, and  $R_2$  is selected from the group consisting of alkyl, substituted alkyl.

60. (Once amended) The 2,6,9-trisubstituted purine composition of claim 51 wherein  $R_4$  and  $R_5$  are each selected from the group consisting of hydrogen, alkyl, heterocyclyl, acyl, aryl, heteroaryl, aralkyl, heteroaralkyl, alkyl alkenyl, alkyl alkynyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl,

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aralkyl, heteroaryl, are optionally substituted with from 1 to 3 substituents independently selected from the group consisting of halo, aryl, heteroaryl, heterocyclyl,  $R^{22}$ ,  $SR^{20}$ ,  $S(O)R^{21}$ ,  $SO_2R^{21}$ ,  $SO_2NR^{20}R^{23}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}CONR^{20}R^{23}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ ,  $CN$ ,  $CO_2R^{20}$ ,  $CONR^{20}R^{23}$ , and  $COR_{20}$ .

61. (Once amended) A 2,6,9-trisubstituted purine composition of claim 60 wherein:

$R'_1$  is an aryl having 6 carbon atoms;

$R_2$  is a hydrogen or hydrocarbon selected from the group consisting of substituted lower alkyl, cycloalkyl, and substituted cycloalkyl each having one to 6 carbon atoms wherein the substituted lower alkyl and substituted cycloalkyl are substituted with from 1 to 2 substituents independently selected from the group consisting of halo,  $R^{22}$ ,  $NR^{20}R^{23}$ ,  $OR^{20}$ ;

$R_4$  and  $R_5$  are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, and heterocyclyl wherein each hydrocarbon has from 1 to 12 carbon atoms, which alkyl, and heterocyclyl are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo,  $R^{22}$ ,  $SR^{20}$ ,  $OR^{20}$ ,  $NR^{20}R^{23}$ ,  $CN$ ,  $CO_2R^{20}$ , and;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-8}$ alkyl;

$R^{21}$  is a member selected from the group consisting of  $C_{1-3}$  alkyl, which alkyl is optionally substituted with 1 to 2 substituents independently selected from the group of halo,  $CF_3$ ,  $CN$ ,  $OR^{20}$ ,  $SR^{20}$ ,  $N(R^{20})_2$ ; and

$R^{22}$  is a member selected from the group consisting of  $C_{1-3}$ alkyl, aryl, heteroaryl which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents

independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl, CN, O-C<sub>1-6</sub> alkyl, CF<sub>3</sub>.

62. (Once amended) A 2,6,9-trisubstituted purine composition of claim 60

wherein:

R'<sub>1</sub> is an aryl having 6 carbon atoms;

R<sub>2</sub> is isopropyl;

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, and heterocyclyl wherein each hydrocarbon has from 1 to 12 carbon atoms, which alkyl, and heterocyclyl are optionally substituted with from 1 substituent independently selected from the group consisting of R<sup>22</sup>, OR<sup>20</sup>, NR<sup>20</sup>R<sup>23</sup>;

R<sup>20</sup> is a member selected from the group consisting of H, C<sub>1-2</sub>alkyl;

R<sup>21</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl;

R<sup>22</sup> is a member selected from the group consisting of C<sub>1-3</sub>alkyl, aryl, which alkyl, aryl, are optionally substituted with 1 substituent independently selected from halo, alkyl, mono- or dialkylamino, CN, CF<sub>3</sub>; and

R<sup>23</sup> is R<sup>21</sup> or H.

63. (Once amended) A 2,6,9-trisubstituted purine composition of claim 60 wherein:

R'<sub>1</sub> is an aralkyl, substituted aralkyl, each having 6-8 carbon atoms wherein substitution includes optional substitution with from 1 to 2 substituents independently selected from the group consisting of halo, CF<sub>3</sub>, aryl, R<sup>22</sup>, NR<sup>20</sup>R<sup>23</sup>, NR<sup>20</sup>COR<sup>21</sup>, OR<sup>20</sup>, CN;

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R<sub>2</sub> is a hydrogen or hydrocarbon selected from the group substituted alkyl, cycloalkyl, substituted cycloalkyl each having one to 6 carbon atoms wherein substitution includes optional substitution with 1 substituent independently selected from the group consisting of halo, R<sup>22</sup>, NR<sup>20</sup>R<sup>23</sup>, OR<sup>20</sup>;

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl and heterocyclyl wherein each hydrocarbon has from 1 to 12 carbon atoms, which alkyl and heterocyclyl are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, R<sup>22</sup>, SR<sup>20</sup>, OR<sup>20</sup>, NR<sup>20</sup>R<sup>23</sup>, CN, CO<sub>2</sub>R<sup>20</sup>, and CONR<sup>20</sup>R<sup>23</sup>;

R<sup>20</sup> is a member selected from the group consisting of H, C<sub>1-8</sub>alkyl;

R<sup>21</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl, which alkyl is optionally substituted with 1 to 2 substituents independently selected from the group of halo, CF<sub>3</sub>, CN, OR<sup>20</sup>, SR<sup>20</sup>, N(R<sup>20</sup>)<sub>2</sub> and

R<sup>22</sup> is a member selected from the group consisting of C<sub>1-3</sub>alkyl, aryl, heteroaryl which alkyl, aryl, and heteroaryl are optionally substituted with 1 to 3 substituents independently selected from halo, alkyl, mono- or dialkylamino, alkyl or aryl, CN, O-C<sub>1-6</sub> alkyl, CF<sub>3</sub>.

64. (Once amended) A 2,6,9-trisubstituted purine composition of claim 60 wherein:

R'<sub>1</sub> is -CH<sub>2</sub>-phenyl wherein the phenyl ring is optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, CF<sub>3</sub>, R<sup>22</sup>, OR<sup>20</sup>, CN;

R<sub>2</sub> is isopropyl;

B7  
R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen, or a hydrocarbon selected from the group consisting of alkyl, and heterocyclyl wherein each hydrocarbon has from 1 to 12 carbon atoms, which alkyl, and heterocyclyl are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of R<sup>22</sup>, OR<sup>20</sup>, NR<sup>20</sup>R<sup>23</sup>;

R<sup>20</sup> is a member selected from the group consisting of H, C<sub>1-2</sub>alkyl;

R<sup>21</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl;

R<sup>22</sup> is a member selected from the group consisting of C<sub>1-3</sub>alkyl, aryl, which alkyl, aryl, are optionally substituted with 1 substituent independently selected from halo, alkyl, mono- or dialkylamino, CN, CF<sub>3</sub>; and

R<sup>23</sup> is R<sup>21</sup> or H.

65. (Once amended) The 2,6,9-trisubstituted purine composition of claim 60 wherein R<sub>1</sub>' is selected from the group consisting of aralkyl, substituted pyridylalkyl, and unsubstituted pyridylalkyl;

R<sub>2</sub> is selected from the group consisting of alkyl, which alkyl is optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, R<sup>22</sup>, NR<sup>20</sup>R<sup>23</sup>, OR<sup>20</sup>;

R<sub>4</sub> is a substituted alkyl having from 2 to 6 carbon atoms optionally substituted with from 1 to 3 substituents independently selected from the group consisting of R<sup>22</sup>, OR<sup>20</sup>, NR<sup>20</sup>R<sup>23</sup>;

R<sub>5</sub> is selected from the group consisting of hydrogen, alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, are optionally substituted with from 1 to 2

substituents independently selected from the group consisting of halo, aryl,  $R^{22}$ ,  $SR^{20}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ , and  $CONR^{20}R^{23}$ ;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-2}$  alkyl;

$R^{21}$  is a member selected from the group consisting of  $C_{1-3}$  alkyl;

$R^{22}$  is a member selected from the group consisting of  $C_{1-3}$  alkyl, aryl, which alkyl, aryl, are optionally substituted with 1 substituent independently selected from halo, alkyl, mono- or dialkylamino, CN,  $CF_3$ ; and

$R^{23}$  is  $R^{21}$  or H.

66. (Once amended) The 2,6,9-trisubstituted purine composition of claim 60 wherein  $R_1'$  is selected from the group consisting of aryl, pyridyl, and substituted pyridyl;

$R_2$  is selected from the group consisting of alkyl, which alkyl is optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo,  $R^{22}$ ,  $NR^{20}R^{23}$ ,  $OR^{20}$ ;

$R_4$  is a substituted alkyl having from 2 to 6 carbon atoms optionally substituted with from 1 to 3 substituents independently selected from the group consisting of  $R^{22}$ ,  $OR^{20}$ ,  $NR^{20}R^{23}$ ;

$R_5$  is selected from the group consisting of hydrogen, alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, each having one to 20 carbon atoms, which alkyl, acyl, heterocyclyl, aryl, heteroaryl, aralkyl, are optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, aryl,  $R^{22}$ ,  $SR^{20}$ ,  $NR^{20}R^{23}$ ,  $NR^{20}COR^{21}$ ,  $NR^{20}CO_2R^{21}$ ,  $NR^{20}SO_2R^{21}$ ,  $OR^{20}$ , CN,  $CO_2R^{20}$ , and  $CONR^{20}R^{23}$ ;

$R^{20}$  is a member selected from the group consisting of H,  $C_{1-2}$  alkyl;

$R^{21}$  is a member selected from the group consisting of  $C_{1-3}$  alkyl;

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~~R<sup>22</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl, aryl, which alkyl, aryl, are optionally substituted with 1 substituent independently selected from halo, alkyl, mono- or dialkylamino, CN, CF<sub>3</sub>; and~~

~~R<sup>23</sup> is R<sup>21</sup> or H.~~

~~67. (Once amended) The 2,6,9-trisubstituted purine composition of claim 60 wherein R<sub>1</sub>' is selected from the group consisting of aralkyl, pyridylalkyl, and substituted pyridylalkyl;~~

~~R<sub>2</sub> is selected from the group consisting of alkyl, which alkyl is optionally substituted with from 1 to 2 substituents independently selected from the group consisting of halo, R<sup>22</sup>, and OR<sup>20</sup>;~~

~~R<sub>4</sub> and R<sub>5</sub> are each alkyl having from 2 to 6 carbon atoms substituted with 1 substituent independently selected from the group consisting of R<sup>22</sup>, NR<sup>20</sup>R<sup>23</sup>, and OR<sup>20</sup>;~~

~~R<sup>20</sup> is a member selected from the group consisting of H, C<sub>1-2</sub> alkyl;~~

~~R<sup>21</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl;~~

~~R<sup>22</sup> is a member selected from the group consisting of C<sub>1-3</sub> alkyl; and~~

~~R<sup>23</sup> is R<sup>21</sup> or H.~~

~~72. (Once amended) The 2,6,9-trisubstituted purine composition of claim 60 wherein R<sub>1</sub>' is selected from the group consisting of aryl, pyridyl, and substituted pyridyl, R<sub>2</sub> is selected from the group consisting of lower alkyl, substituted lower alkyl, and alkyl cycloalkyl, and R<sub>4</sub> and R<sub>5</sub> are each a substituted lower alkyl having from 2 to 6 carbon atoms.~~



76. (Once amended) The 2,6,9-trisubstituted purine composition of claim 50  
 selected from the group consisting of [2-((2-hydroxyethyl)[9-(methylethyl)-6-({[4-  
 (trifluoromethyl)phenyl]methyl}amino)purin-2-yl)amino]ethan-1-ol,] (((2S)oxolan-2-  
 yl)methyl)(6-({[4-fluorophenyl]methyl}amino)-9-(methylethyl)purin-2-yl)amine,  
 [((2R)oxolan-2-yl)methyl)(6-({[4-fluorophenyl]methyl}amino)-9-(methylethyl)purin-2-  
 yl)amine, (2-aminoethyl)(6-({[3,5-dichlorophenyl]methyl}amino)-9-(methylethyl)purin-2-  
 yl)amine, (2-aminoethyl)[6-({[4-chloro-3-(trifluoromethyl)phenyl]methyl}amino)-9-  
 (methylethyl)purin-2-yl]amine, [-(6-({[4-chlorophenyl]methyl}amino)-9-  
 (methylethyl)purin-2-yl)amino]-3-methylbutanamide, (2-amino-2-methylpropyl)(6-({[4-  
 chlorophenyl]methyl}amino)-9-(methylethyl)purin-2-yl)amine, 3-(2-[bis(2-  
 hydroxyethyl)amino]-6-({[4-chlorophenyl]methyl}amino)purin-9-yl)butan-2-one,  
 2-[(6-({[4-chlorophenyl]methyl}amino)-9-(methylethyl)purin-2-yl)amino]-3-  
 methylbutan-1-ol, 4-[(2-[(2-aminoethyl)amino]-9-(methylethyl)purin-6-  
 yl)amino)methyl]benzenesulfonamide, [2-[(2-hydroxyethyl)(6-({[4-  
 methoxyphenyl]methyl}amino)-9-(methylethyl)purin-2-yl)amino]ethan-1-ol,] [2-((2-  
 hydroxyethyl){9-(methylethyl)-6-[(4-phenylphenyl)amino]purin-2-yl}amino)ethan-1-  
 ol,] {2-[(2-amino-2-propyl)amino]-9-(methylethyl)purin-6-yl}[(4-  
 chlorophenyl)methyl]amine,  
 {2-[(2-aminoethyl)amino]-9-(methylethyl)purin-6-yl}[(4-chlorophenyl)methyl]amine,  
 {2-[(2-aminopropyl)amino]-9-(methylethyl)purin-6-yl}[(4-chlorophenyl)methyl]amine and 2-  
 [(2-aminoethyl)(6-({[4-chlorophenyl]methyl}amino)-9-(methylethyl)purin-2-yl)amino]ethan-1-  
 ol.

78. (Once amended) The 2,6,9-trisubstituted purine composition of claim [77] 60

B'10  
wherein R<sub>1</sub>' is selected from the group of compounds consisting of [4-methoxybenzyl,]  
4-phenylbenzyl, 4-methoxybenzyl, 4-biphenyl, 3-methoxybenzyl, 4-(2-thienyl)benzyl, 4-  
(4-methyl)phenylbenzyl, 4-(4-trifluoromethyl)phenylbenzyl, 4-(4-nitrilo)phenylbenzyl, 4-  
(2-pyridinyl)benzyl, piperonyl, 3-thiomethoxyphenyl, 4-thiomethoxyphenyl and 4-  
bromophenyl.

B'11  
81. (Once amended) A method for treating a disease in a mammal that is characterized  
by abnormal cell proliferation comprising administering a therapeutically effective amount of the  
composition of claim 50 to the mammal.

B'12  
Add the following new claim 91 to the application:

91. (New) The use of the compound of claim 50 as an antifungal agent.

#### REMARKS

Claims 50-88 and 90-91 are pending in the application. Many of the application  
claims have been amended to overcome the Examiner's claim objections and rejections.  
Claim 89 has been cancelled from the application and replaced with new claim 91. The  
application Abstract has been amended and the specification has been amended to recite  
the complete application parentage and to correct problems with the specification that the  
Examiner identified in the Official Action. The Abstract, specification and claim  
amendments do not add new matter to the specification. A marked up version of the  
amended claims is attached as Appendix A to this reply pursuant to 37 CFR 1.121.

The Examiner asserted that certain portions of the claimed invention and  
specification are new matter that was not part of the earliest parent applications and,  
therefore, is entitled to a February 1, 1999 filing date. The Applicants disagree with the